Loving music

Innovation Compact

User manual

Silver with natural wood chassis

Black with black chassis

Figures: Package with clearaudio tonearm „Magnify“ and clearaudio cartridge „Stradivari V2“.

Made in Germany

Hi-Fi Components clearaudio electronic® GmbH

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www.clearaudio.de • www.analogshop.de • info@clearaudio.de

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Version: October 2015_E

Dear **Clearaudio** customer,

Congratulation's to your choice of the *Innovation Compact* turntable, a world class turntable, handmade in Germany by **Clearaudio** electronic GmbH.

Resonance minimizing chassis sandwich construction in combination with the innovative motor unit (low noise level and high turning moments), guarantees total isolation of resonances from the turntable chassis, providing the best music reproduction and authentic High End imaging. A high precision, maintenance free sinter bronze bearing is completing the analogue pleasure.

The **Clearaudio** patented CMB-Bearing-Technology, an inverted bearing with jewelled and polished ceramic bearing shaft and a bronzed liner, provides frictionless analog enjoyment.

Please read this instruction manual carefully, to avoid any damages or loss of warranty.
This manual will help you for an easy set-up and guarantees the highest pleasure for a long time.

We wish you a lot of musical enjoyments with your new **Clearaudio** *Innovation Compact* turntable.

Clearaudio electronic GmbH

This section must be read before any connection is made to the mains supply.

WARNINGS

Don't expose your turntable to rain or humidity.
Don't handle the mains leads with wet hands.
Don't place or insert anything into the equipment or through ventilation holes.
No naked flame sources, such as lighted candles, should be placed on the equipment.

CE-MARKING

CE

The **Clearaudio** *Innovation Compact* meets the regulations concerning electromagnetic disturbance (EMC) and low-voltage appliances.

EQUIPMENT MAINS WORKING SETTING

Your **Clearaudio** product has been prepared to comply with the household power and safety requirements that exist in your area. This product can be connected to 230 V or 110 V AC (50 Hz and 60 Hz).

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- Copyright Act 1956,
- Dramatic and Musical Performers Act 1958,
- Performers Protection Acts 1963 and 1072,
- Any more recent legal regulations.

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1. Packing overview

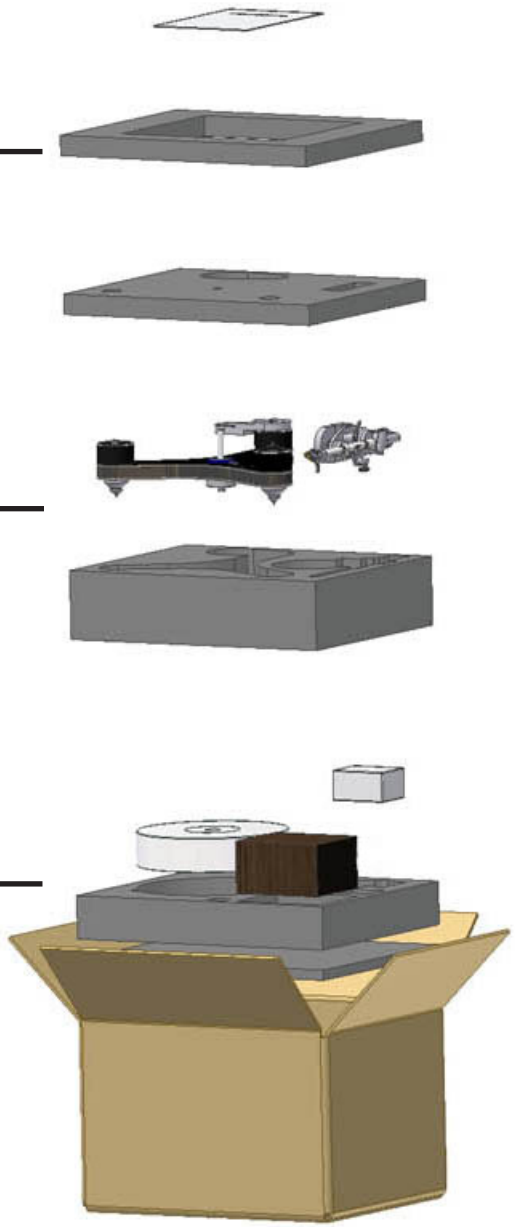
Accessories,
user manual,
warranty card,
Clearaudio Quality Card,
Stroboscope Testrecord

Innovation Compact turntable chassis incl. mounted lower bearing part and integrated motor unit;

optional: tonearm

Platter with integrated bearing upper part;
power supply;

optional: cartridge



Pic. 1: Packing overview

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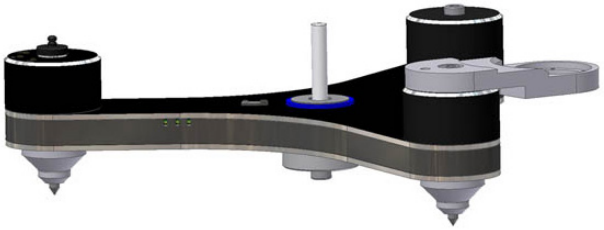
2. Part list

Clearaudio has developed a special and secure packing for your *Innovation Compact* turntable that ensures a safe transportation.
Please keep this original packing, if you need to ship the turntable.
Below you find the part list of the **Clearaudio** *Innovation Compact* turntable:

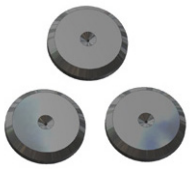
1



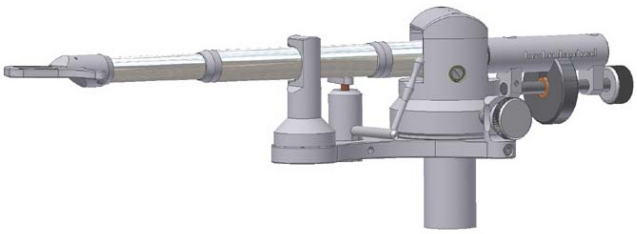
2

3

4



5a



Pic. 5a: Clearaudio *Universal* tonearm

5b

Pic. 5b: Clearaudio *Magnify* tonearm

Pic. 2: Part list

1.	Turntable body with mounted lower bearing part	4.	3x Flat Pads
2.	Platter with integrated upper bearing part	5.	Optional: **Clearaudio** *Universal* (Fig. 5 a) or *Magnfiy* (Fig. 5 b) tonearm Optional: 30 mm base for Universal tonearm (not shown)
3.	Power supply		

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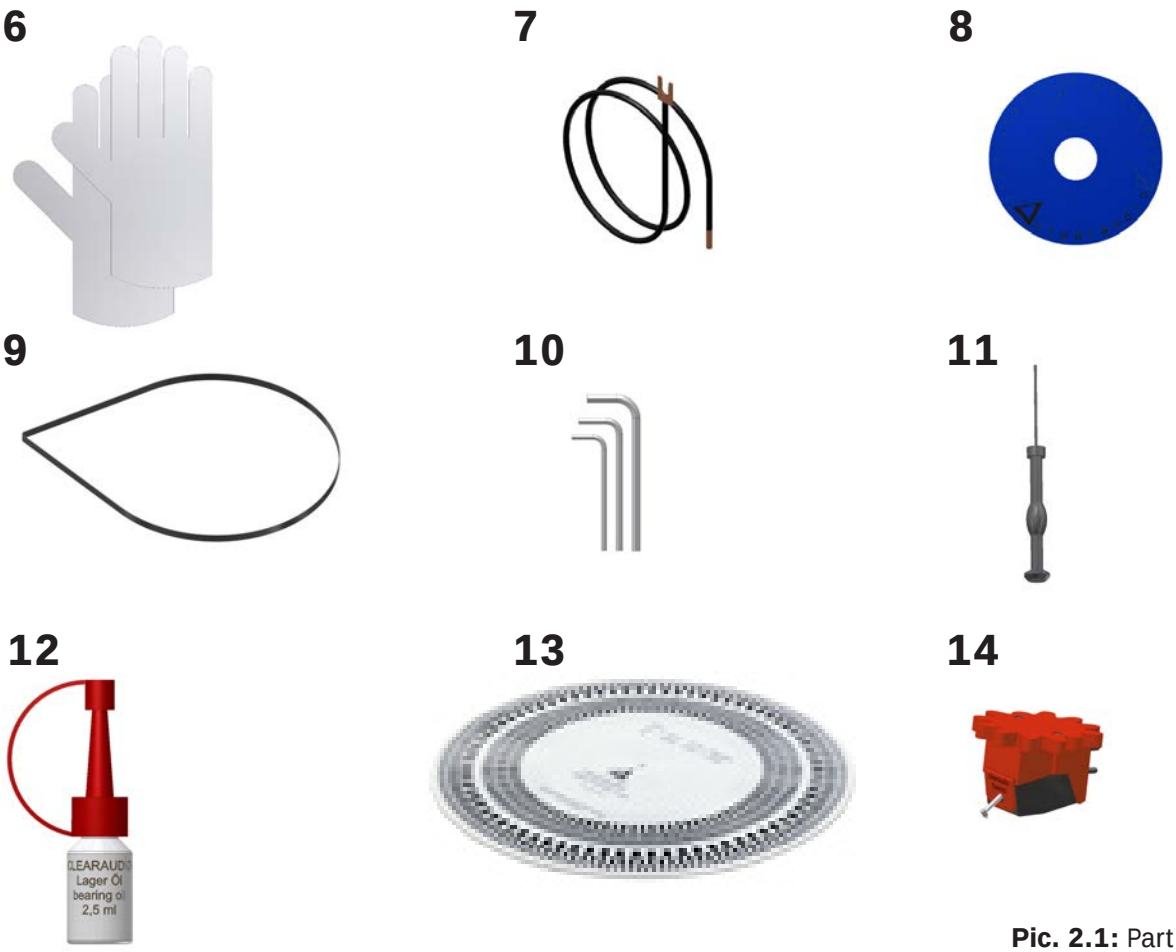
Continuation of part list



Pic. 2.1: Part list

6.	1 Pair of white gloves	12.	Bearing oil for occasional use
7.	Grounding - wire for the *Innovation* turntable (to connect in the bottom bearing part)	13.	**Clearaudio** *Stroboscope Testrecord* (Art. No. AC038) to adjust the exact speed
8.	Level gauge for the turntable alignment	14.	Optional in package: **Clearaudio** MC cartridge
9.	1 pcs. flat belt	15.	Optional in package: Turntable + tonearm + cartridge No illustration: cartridge alignment gauge for *Magnify* or *Universal* tonearm (optional)
10.	3 pcs. allen – keys; sizes: # 2 (optional: Universal Tonearm: #3/#7	16.	Not shown: warranty card, **Clearaudio** Quality certificate card
11.	Aluminum precision screw driver	17.	Not shown: User Manual

IMPORTANT NOTICE:
Please double check the tightness of all bolts, hardware, and mounting pods, as temperature fluctuations during transit may have caused the hardware to become loose.

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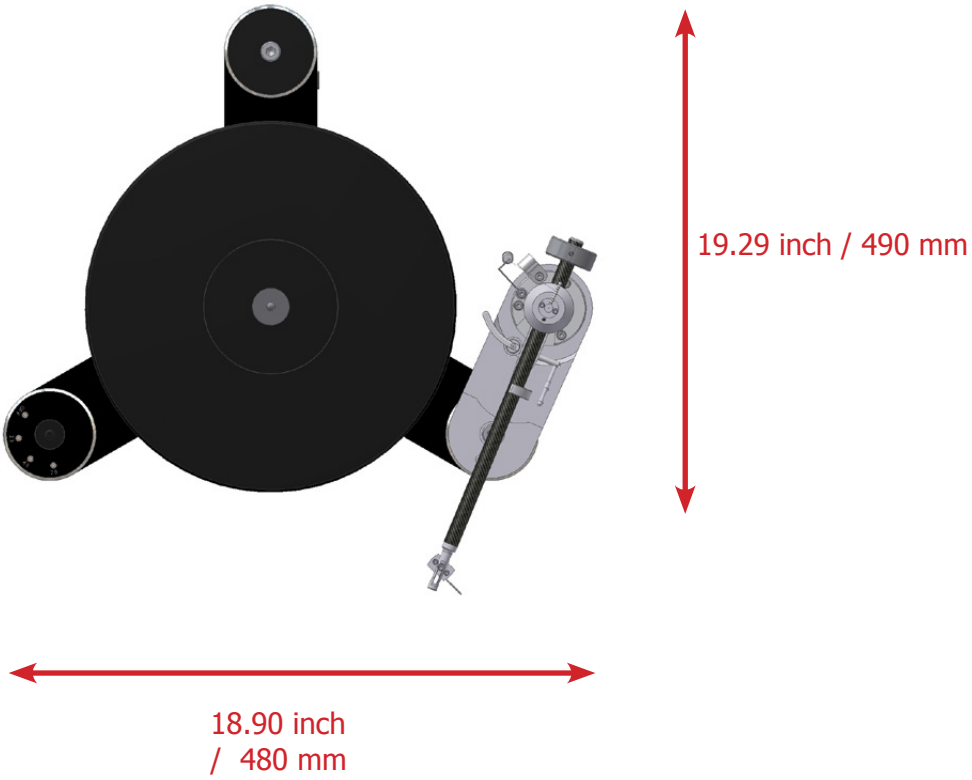
3. Installation and set up

The set up of the *Innovation Compact* turntable is easy as the turntable chassis is pre-assembled and has been tested at the factory.
Please use the white gloves enclosed in order to avoid scratches or unwanted fingerprints (platter).

The *Innovation Compact* turntable requires a space for set-up of at least 18.90 inch x 19.29 inch.



Pic. 3: Required set - up space

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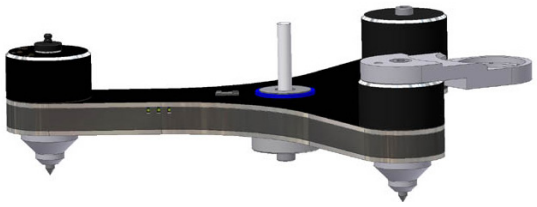
Please follow the description step by step:

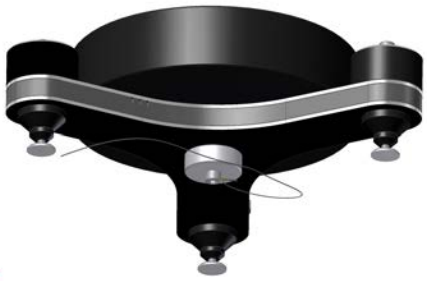
1.)
First take out the three black flat pads out of the accessory bag. Place these flat pads on your hifi-rack or another suitable base, where the final position of your *Innovation Compact* turntable will be.

2.)
After that, take the *Innovation Compact* turntable body of the next packing layer and place the spikes of the turntable on the flat pads.



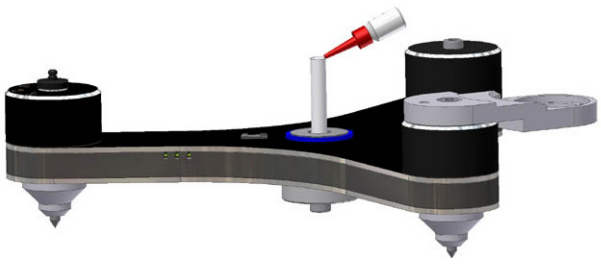
Pic. 4: *Innovation Compact* with tonearm base

3.)
To avoid hum noises it can be necessary to ground the bearing. For that please plug in the provided ground cable into the hole of the screw from the bearing at the bottom side of the turntable.



Pic. 5: Grounding the bearing of the *Innovation Compact*

4.)
Remove the protective security tape from the bearing housing.
Place two drops of the synthetic bearing oil on the ceramic bearing shaft
(also available at www.analogshop.de / Art. No. AC068).



Pic. 6: Oiling the bearing shaft

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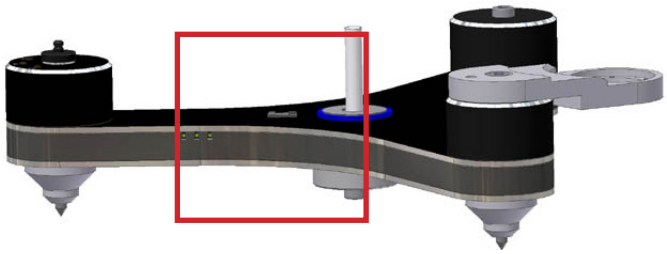
5.)

In the next step remove the lamination of the sensor, mounted on the turntable chassis (picture 7: red frame).
Please remove the lamination extreme carefully and avoid any soiling and scratches.



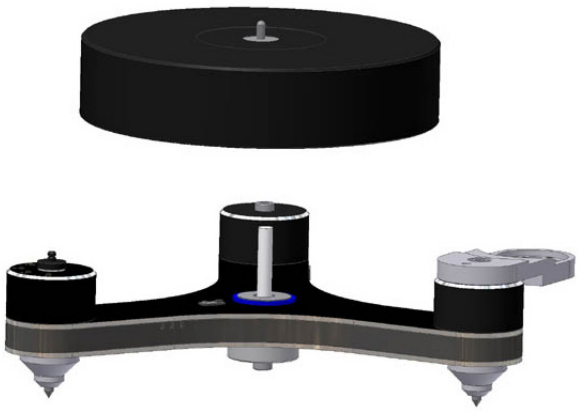
Pic. 7: Removing the lamination

6.)
6.1)
Take the platter with both hands (with white gloves) carefully out of the packing.
Please pay attention that the integrated bearing does not fall out of the platter!

The flat side of the platter should face to the chassis and the side with the cut-out (for the record) should face up.

6.2)
In the next step remove the lamination of the sensor on the bottom side of the platter.
Please remove the lamination extreme carefully and avoid any soiling and scratches.

6.3)
With both hands you can place the platter carefully onto the bearing.
Through a lightly (!!) up and down movement the platter will slip onto the bearing upper part (picture 8).



Avoid major side forces to prevent any damages to the ceramic bearing!

To avoid any damages on your bearing, the platter should have room temperature before the set up begin (approx. 20 ° Celsius).

Make sure with gentle pressure that the platter is applying on the complete surface of the bearing.

Pic. 8: Setting up the platter

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7.)
To install the tonearm and / or to mount and adjust a cartridge, please follow the user manual of the manufacturer.

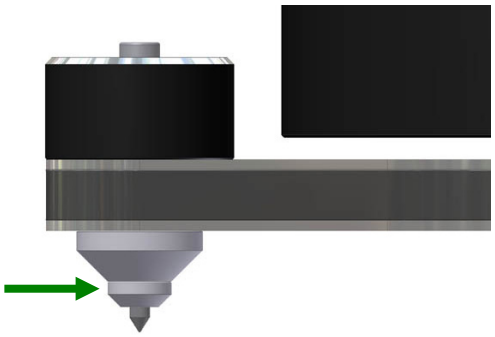
8.)
The following final adjustment is very important:

Please ensure that your turntable rack is in a levelled position.

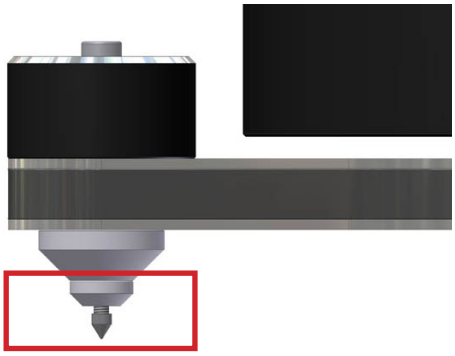
Please check with the delivered level gauge, if your Innovation Compact turntable is in a levelled position. You can adjust each of the turntables feet to get the turntable levelled (Pic. 9).

To adjust the height, first turn the middle part of the feet (Pic. 10 a; green arrow), then you can twist the end part (Pic. 10 b, red frame) to the desired height.
After the adjustment, please make sure, to turn the middle part again to fix the selected position.

Pic. 9: Alignment of the turntable



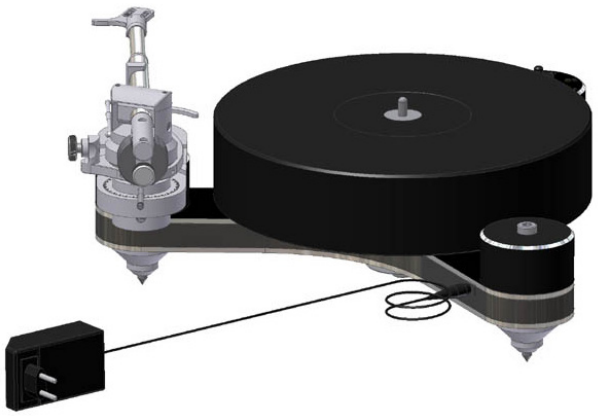
Pic. 10 a: Middle part



Pic. 10 b: End part

Only if the turntable is in a levelled position you will get the best results with your *Innovation Compact* turntable.

9.)
Please connect the plug of the power supply with the linkage of the turntable.
After that connect the power supply with the electric power supply.



Pic. 11: Connection of power supply and motor

10.)
Place the flat belt around the platter and around the motor pulley.
By pushing the sensor-switch, marked with "33 1/3" on the motor, the turntable starts to spin until 33 1/3 rpm is reached.

After the initial set-up we recommend to let the turntable spin for at least 15 to 30 minutes.
This ensures a smoother break in.

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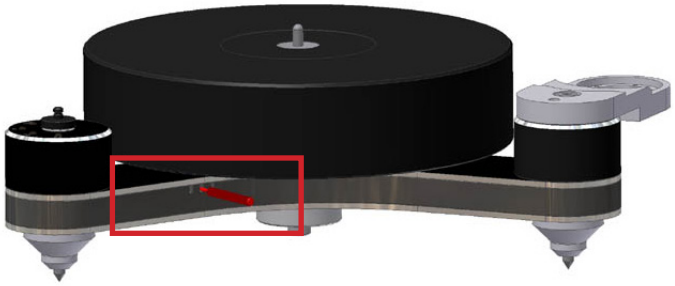
4. Fine adjustment of the *Innovation Compact* motor

The motor adjustment is already pre set at the factory. Through the transport some small speed deviations can occur. Please check the speed before using the turntable for the first time.

For the correct adjustment of the speed please put the recommended **Clearaudio** *Stroboscope Testrecord* on the platter. Follow hereby the instruction of the *Stroboscope Testrecord* user manual.
To check the speed with highest accuracy please use the Clearaudio Speed Light (Art. No. AC039) (www.analogshop.de).

On the front side of your turntable there are three setting trimmers (see pic. 11).



- Left trimmer = setting 33 1/3 rpm
  (near turntable motor)
- Middle trimmer = setting 45 rpm
- Right trimmer = setting 78 rpm
  (near turntable bearing)

Pic. 12: Fine adjustment of the motor (on the frontside)

If you like to adjust the speed 33 1/3 rpm, take the Aluminum screw driver (see accessories) and turn the left trimmer until you have reached the right speed according to the Stroboscope Testrecord (see user manual *Stroboscope Testrecord*).

- Turning the trimmer counter clockwise = reduces the turntable speed
- Turning the trimmer clockwise = raises the turntable speed

Please proceed with the speed adjustment for 45 rpm and 78 rpm in the same way!

Please note:

If the turntable does not reach the correct speed, the sensor or the scale ring could be dirty or dusty.
To clean the sensor, please take off the platter very carefully!
Clean the sensor and the scale ring with a little isopropyl alcohol and a cotton bud.
Be careful and avoid any scratches on the sensor or the scale ring!
If the motor has further more speed variations please contact your nearest authorized **Clearaudio** dealer or directly the **Clearaudio** factory (address on page 13).

If the turntable is not in use, disconnect the unit completely from the power supply by removing the main plug from the socket.

Now you are finally ready to play your vinyl records.

We wish you a lot of pleasure with your new *Innovation Compact* turntable.

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5. Special instruction

5.1 Maintenance

- If the *Innovation Compact* turntable is a longer time not in use, please disconnect the motor from the main supply.
- Every two years you can lubricate the bearing of the turntable platter with the delivered oil.
  In this case it is enough to put 1 or 2 drops of the oil into bearing.
- Please take special caution to any damages of the power cord. Any damages should be repaired only by authorized personal.
  A damaged power cord must be exchanged immediately!

Caution:
Please use only non alcoholic fluids and only fluids specially used for acrylic, to clean the Innovation Compact turntable.
Otherwise damage on the material or the surface can occur!
Don't use try cloths for cleaning because of the electrostatic charging. Suitable cleaning fluids will be available at Clearaudio (www.analogshop.de) **or your Hifi dealer.**

5.2 Transport

Send / ship the *Innovation Compact* turntable always and only in the original packing!!!
Only in the original packing **Clearaudio** can provide the warranty. If you repackage the turntable, please make all steps inverted like at installation and set up (chapter 3).

- If any transportation of the *Innovation Compact* turntable should be necessary, please always remove the turntable platter and the shaft holder. Otherwise serious damage can occur!
- To avoid any dust coming into the bearing, the bearing hole needs to be covered as well.
  Only if the product is returned in its original packing **Clearaudio** can provide the warranty.

5.3 Service

In case of any necessary, service for all **Clearaudio** products should be done by authorized personal only.
In case of any repair, the **Clearaudio** *Innovation Compact* turntable needs to be send to your nearest authorized **Clearaudio** distributor, dealer or directly to the **Clearaudio** factory:

Clearaudio electronic GmbH
Spardorfer Str. 150
91054 Erlangen
Germany

Phone: +49 9131 40300 100
Fax: +49 9131 40300 119
www.clearaudio.de
www.analogshop.de
info@clearaudio.de

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6. Technical data

Construction principle:	Resonance optimised chassis's shape, belt driven with optical, full automatic speed control
Speed possibilities:	33 1/3 rpm / 45 rpm / 78 rpm
Drive unit:	Decoupled DC motor in a massive metal-housing. This *Innovation Compact* can be connected to 230 V or 110 V AC (50 Hz and 60 Hz).
Bearing:	Inverted and polished ceramic bearing shaft, polished sinter bronze insert, including patented CMB bearing technology
Platter:	Delrin or acrylic GS-PMMA platter (Wood version), precision CNC machined surface
Speed variation less than:	+/- 0.08 %
Deviance of the set value:	+/- 0.01 %
Weight:	approx. 12 kg (without tonearm and power supply)
Dimensions: **(w x d x h)**	approx. 428 mm x 390 mm x 146 mm (16.85 inch x 15.35 inch x 5.75 inch)
Power consumption: **Max. consumption:** **Consumption in operation:** **Stand by mode:** **Off mode:**	 9.3 Watt 2.5 Watt 2.5 Watt 0.0 Watt
Warranty:	5 years* (see page 15)

* Only if the warranty card is filled out correctly and sent back to **Clearaudio**!

Clearaudio electronic is not responsible for typographical errors in descriptions. Technical specifications subject to change or improvement without prior notice. Availability as long as stock lasts. Copies and imprints- also only in extracts – require written conformation through **Clearaudio** electronic GmbH; Germany
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To achieve the full **Clearaudio** warranty (*Innovation Compact* turntable 5 years), it is necessary that you fill out and send the corresponding part of the warranty registration certificate /card back to **Clearaudio**, within two weeks after purchase. Only if the product is returned in its original packing **Clearaudio** can provide the warranty of 5 years.

ENGLISH

WARRANTY

For warranty information, contact your local clearaudio distributor.

RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase.
It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with clearaudio.

IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.
FOR U.K. ONLY
This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

FRANÇAIS

GARANTIE

Pour des informations sur la garantie, contacter le distributeur local clearaudio.

CONSERVER L'ATTESTATION D'ACHAT

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sur pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec clearaudio.

IMPORTANT

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

DEUTSCH

GARANTIE

Bei Garantiefragen wenden Sie sich bitte zunächst an Ihren clearaudio-Händler.
Heben Sie Ihren Kaufbeleg gut auf.

WICHTIG!

Die Angaben auf Ihrer Quittung erlauben uns die Identifizierung Ihres Gerätes und belegen mit dem Kaufdatum die Dauer Ihrer Garantie-Ansprüche. Für Serviceleistungen benötigen wir stets die Gerätenummer.
Diese finden Sie auf dem Typenschild auf der RückPage des Gerätes oder auf dem Tonarm sowie in der beigefügten Garantie-Registrierkarte.

NEDERLANDS

GARANTIE

Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke clearaudio.

UW KWITANTIE, KASSABON E.D. BEWAREN

Uw kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt, verwijzing bijv, in verbend met verzekering of bij correspondentie met clearaudio.

BELANGRIJK

Bij een evt, beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuurzijn voldoende bewijs.

ITALIANO

GARANZIA

L'apparecchio è coperto da una garanzia di buon funzionamento della durata di un anno, o del periodo previsto dalla legge, a partire dalla data di acquisto comprovata da un documento attestante il nominativo del Rivenditore e la data di vendita. La garanzia sarà prestata con la sostituzione o la riparazione gratuita delle parti difettose.
Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non possano riferirsi a difetti di funzionamento dell'apparecchio. Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.
Gli apparecchi verranno riparati presso i nostri Centri di Assistenza Autorizzati. Le spese ed i rischi di trasporto sono a carico del cliente. La casa costruttrice declina ogni responsabilità per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale o per guasti dovuti ad uso continuato a fini professionali.

ESPAÑOL

GARANTIA

Para obtener información acerca de la garantia póngase en contacto con su distribuidor clearaudio.

GUARDE SU RECIBO DE COMPRA

Su recibo de compra es su prueba permanente de haber adquirido un aparato de valor, Este recibo deberá guardarlo en un lugar seguro y utilizarlo como referencia cuando tenga que hacer uso del seguro o se ponga en contacto con clearaudio.

IMPORTANTE

Cuando solicite el servicio otorgado por la garantia el usuario tiene la responsabilidad de demonstrar cuándo efectuó la compra. En este caso, su recibo de compra será la prueba apropiada.

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Stroboscope Testrecord

User manual

The **Clearaudio** *Stroboscope Testrecord* satisfies the highest demands for an exact speed adjustment for turntables. Dramatic sound improvements can be reached only with exact calibrated speeds.

- Optimal adjustment for turntables -

To adjust the exact speed, please choose the side for 50 / 60 Hz, or the other side for the use with the speed light first. If you choose the side without the speed light source, you can use the regular light source for the installation, either 50 Hz (outer scales) or 60 Hz. The scales are graduated in three different reading options:
33.3 Hz, 45 Hz and 78 Hz (starting from the outer diameter).

Please place the *Stroboscope Testrecord* on your turntable platter and start the engine of your turntable. The big advantage of the **Clearaudio** *Stroboscope Testrecord* is, that you can place your cartridge onto the *Stroboscope Testrecord*, while measuring the speed, as there are grooves provided on the disc. This means, for the first time a real time speed analysis is possible under realistic circumstances.

If you have the impression that the horizontal lines move on the scale, you should set or readjust the speed of the motor again.

- If the lines move clockwise, the speed is too fast.
- If the lines move counter clockwise, the motor speed is too slow.

Please correct the speed on your motor or turntable until you have the impression that the lines stopped moving. After that you have reached the exact speed and you can enjoy the full potential of your vinyl collection again.

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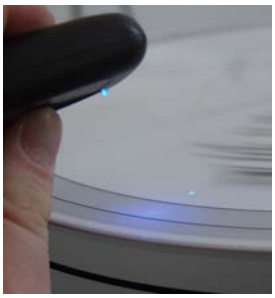

If you use the *Speed Light* (Art. No. AC039) you can reach an even higher or more accurate adjustment, completely independent of the power line or frequency of your country. As well, the 300 Hz calibrated light, used as an external light source is completely independent from possible power line fluctuations, which could influence the result by regular light. The 300 Hz of the *Speed Light* are generated by a stabilized quartz oscillator and permit a very exact adjustment.
Please put the *Stroboscope Testrecord* with the fine lines upward on your turntable. Here you also have the possibility to choose between two different speeds.

With the outside scale you can detect the speed of 33 Hz and with the inside scale you can detect the speed of 45 Hz. Again, the big advantage of the **Clearaudio** *Stroboscope Testrecord* is, that you can place your cartridge onto the stroberecord, while measuring the speed, as there are grooves provided on the disc. This means, for the first time a real time speed analysis is possible under realistic circumstances.

Press the button of the *speed light* source and place it parallel over to the scale and adjust the motor or turntable speed until the horizontal lines do not move anymore.

- Tip -

As more accurate your turntable speed is adjusted, as better the overall sonic appearance of the record playback will be!
It is mandatory to check the speed several times through out the year, to ensure that other influences are not minimizing the sound quality.

Technical Data:

Speed Light

Light source:	blue LED / 300 Hz precision light source (calibrated)
Battery:	V23GA – 12 V – Alkaline (Art. No.: AC039/B)

(Technical changes are subject without notification)
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